THE UNIVERSITY
OF MICHIGAN
JUL 7 1965
TRANSPORTATION
LIBRARY

The Dock & Harbour Authority

19 Harcourt Street, London, W.1

Index to Volume XLV

May 1964—April 1965

Nos. 523 to 534

A

Air Curtain Near a Vertical Wall, Underwater, 306
Alterations to Malta Dockyard, 202
Antwerp, Harbour Conference and Exhibition at, 84
Antwerp, Improvements at the Port of, 321
Australian Stevedoring, 284

B

Beach Erosion, Emergency Measures to Combat, 391
Berthing Installations, Ferry, 359
Berthing Ship, The, 22, 49, 90
Blast Waves, Bubble Screen Attenuation of, 213
Book Reviews, 135, 320
"Cargo Handling and the Modern Port", 320
"Hiring of Dock Workers", 135
"Marine Sewage Purification Booklet", 321
"Materials Handling with Industrial Trucks", 136
"Oceanographical Engineering", 320
"Piers, Abutments and Formwork for Bridges", 135
"Port Dues, Charges and Accommodation, 1964", 135
"Ports of the World 1964", 136
"Shipping World Year Book and Who's Who", 136
"Structural Precast Concrete", 135
"Tanker Directory of the World", 136
"Testing for Safety of Fork Lift Trucks", 136
"The Golden Age of Concrete", 321
Breakwaters, Design of Rubble Mound, 377
Breakwaters with Low Coefficients of Reflection, Comments on Vertical, 56
Bremen, Development of a New Dock Area, Port of, 287
Bristol, The Port of, 2
British Ports, The Re-organisation of, 53
British Transport Docks Annual Report, 132
Bubble Screen Attenuation of Blast Waves, 213
Buoys, Reinforced Plastic Lighted, 259

C

Canadian Ports, Record Year for, 26
Cargo Handling in Deep-Sea Liner Trades, Some Aspects of, 12
Cargo Handling System, The "Magromatic", 275
Cargo Ships, Segmented, 278
Carriage of Dangerous Goods in Ships, 376
Cased Piles in Maritime Structures, Further Examples of, 104
Cathodic Protection, Corrosion Problems and, 215

Cathodic Protection of Marine Structures, 75
Cathodic Protection, Recent Advances in, 184
Chamber of Shipping, Port Congestion and the, 342
Clyde Dry Dock, Cranage Facilities at, 264
Coal Loading Plant at Port Kembla, 281
Coal Loading Plant for Port of Newcastle, N.S.W., 225
Coastal Defence Works, Sand for, 317
Coastal Engineering, Conference on, 122
Coastal Works at Nahariya, New, 323
Coast Erosion, Some Observations of, 64
Comments on Vertical Breakwaters with Low Coefficients of Reflection, 56
Computing the Annual Cost of a Pier Project, 249
Conference on Coastal Engineering, 122
Constructing Marine Piers, A New System of, 163
Construction of a Dock, The Factors Implicit in the, 300
Containerised Goods, Customs' Arrangements for, 358
Control of U.K. Ports, 83
Correspondence, 21, 162, 180, 226, 263, 327, 329, 334
All-Weather Meat Loaders, 263
Cargo Handled Per Foot Run of Quay, 180, 226, 263
Cargo Handling at the Port of London, 21
Effective Protection for Quays and Ships, 329
Port Administration, 327, 334
Side Pressures on Piles of Piers, 263
The Carriage of Goods, 226
The Problem of Cargo Movement, 162
Tidal Flow in the Thames Estuary, 162, 180
Corrosion Problems and Cathodic Protection, 215
Cost of Building Higher, Port Transit Sheds: The, 276
Cranage Facilities at Clyde Dry Dock, 264
Cure for Port Congestion, A, 387
Customs' Arrangements for Containerised Goods, 358

D

Dangerous Goods in Ships, Carriage of, 376
Deep-Sea Liner Trades, Some Aspects of Cargo Handling in, 12
Demand Control, Maximum, 27
Design for Obsolescence in Maritime Works, 309
Design of Rubble Mound Breakwaters, 377
Development of a New Dock Area, Port of Bremen, 287
Discharge of Timber Cargoes from Ports, 209
Dismountable Pontoons for Easy Transport, 166
Dock Labour in the U.K., 43
Dock Labour, New Zealand, 220
Dock Labour, One View of, 384
Dock Labour Study at Parkeston Quay, 111
Dock Operating and Mechanisation in Perspective, 198
Dock, The Factors Implicit in the Construction of a, 300
Dredger for U.S. Engineers, New, 315
Dredger, New Japanese Suction, 129
Dredgers for Ghana, New, 164
Dredgers, Output Logging Instrument for Suction, 257
Dredging, Offshore, 241
Dredging Research, 146
Dry Dock, Cranage Facilities at Clyde, 264
Dual-Purpose Tug, New Class of, 200
Dunkirk, The Port of, 222
Dutch Port Industry's Manpower Problem, 247

E

Easy Transport, Dismountable Pontoons for, 166
Economics of Sawnwood Packaging, The, 388
Editorial Notes:
Berthing Ship, 69
Breakwater Construction at IJmuiden: A New Technique, 269
Carriage of Goods, 137
Cased Piles in Marine Works, 103
Dilemma of Modernisation, 299
New Wharves—or Ships? 365
Ninth Conference on Coastal Engineering, 103
Port Administration: A Model Code of Practice, 267
Port Administration: the Pragmatic Approach, 333
Port of Bristol, 1
Port Planning in France: Le Havre, 169
Problems of Administration, 233
Rail-Road Ferry Terminal, Wellington, New Zealand, 35
Reconstruction of Malta Dockyard, 201
Re-organisation of British Ports, 35
Work Study at Parkeston Quay, 103
Effective Protection for Quays and Ships, 251
Effects of Pollution on the Thames Estuary, 326
Efforts to Control Oil Pollution of the Seas, 118
Eliminating an Obstruction in the New Waterway, 15
Emergency Measures to Combat Beach Erosion, 391
Estuarine Salt Wedges, 79
Estuary, Effects of Pollution on the Thames, 326
Estuary, Tidal Flow in the Thames, 160
Europe, Our Links With, 19
Europe, Transport Links With, 151
Extension of Piers at IJmuiden Harbour, 270

F

Factors Implicit in the Construction of a Dock, The, 300
Felixstowe, Further Developments at the Port of, 153
Ferry Berthing Installations, 359
Ferry, New Terminals for Woolwich, 234
Ferry Terminal at Southampton, New, 189
Ferry Terminal, The Picton Rail-Road, 138
Ferry Terminal, The Wellington Rail-Road, 36
French Ports, Proposed Re-organisation of Major, 183
Further Developments at the Port of Felixstowe, 153
Further Examples of Cased Piles in Maritime Structures, 104
Future of the Panama Canal, The, 143

G

Genoa, New Oil Terminal at the Port of, 70
Ghana, New Dredgers for, 164
Ghana, The Ports of, 85

H

Harbour Conference and Exhibition at Antwerp, 84
Harbour, Extension of Piers at IJmuiden, 270
Harbour Extension, Port Lyttelton, 357
Harbour, Improvements at Kingston, 314
Harbours, Improvements at South African, 32
Harbour of Luleå, The Ore, 366
Harbours, Skimming Barge for, 134
Harbour Surveillance Radar, Recent Developments in, 45
Hull, Oil Jetties at the Port of, 336
Humber, An Investigation into Silt in Suspension in the River, 120
Hydraulics Research at Wallingford, 97
Hydro-Quebec Power Development Project, The, 345

I

IJmuiden Harbour, Extension of Piers at, 270
Improvements at Kingston Harbour, 314

Improvements at South African Harbours, 32
Improvements at the Port of Antwerp, 321
Insect Control, New Method of, 240
Investigation into Silt in Suspension in the River Humber, 120

J

Japanese Suction Dredger, New, 129
Jetties at the Port of Hull, Oil, 336

K

Kembla, Coal Loading Plant at Port, 281
Kingston Harbour, Improvements at, 314

L

Labour Force, Training the, 95
Le Havre, The Port of, 170
Liner Trades, Some Aspects of Cargo Handling in Deep-Sea, 12
Liquefied Natural Gas by Sea, Transport of, 248
Liverpool Tidal Institute and Observatory, 42
Loading Plant at Port Kembla, Coal, 281
Loading Plant for Port of Newcastle, N.S.W., Coal, 225
Lock Gate Anchorages at Newport Docks, Repairs to, 181
London, Record Year at the Port of, 125
Luleå, The Ore Harbour of, 366
Lumber Increases Efficiency, Packaged, 261
Lyttelton Harbour Extension, Port, 357

M

"Magromatic" Cargo Handling System, The, 275
Malta Dockyard, Alterations to, 202
Management, Port, 175
Management Techniques, Modern, 227, 253
Manchester Docks, New Transit Shed at, 195
Manning for the Mechanical Handling of Ships' Cargoes, 62
Manpower Problem, Dutch Port Industry's, 247
Manufacturers' Announcements, 33, 67, 101, 167, 231, 265, 296, 330, 362, 397
Marine Engineering at the Soldado Off-Shore Oilfield, 131
Marine Structures, Cathodic Protection of, 75
Maritime Research, 349
Maritime Structures, Further Examples of Cased Piles in, 104
Maritime Works, Design for Obsolescence in, 309
Maximum Demand Control, 27
Mechanical Handling of Ships' Cargoes, Manning for the, 62
Mechanisation in Perspective, Dock Operating and, 198
Metallurgical Developments and the Port Industry, 193
Mexico, Port Development in, 355
Milford Haven, New Tanker Terminal at, 165
Mobile Crane Track for Waalhaven Pier, Rotterdam, 149
Model Studies of Wave Absorbing Devices, 157
Modern Management Techniques, 227, 253
Modern Practice in Troughed Belt Conveying, 128

N

Nahariya, New Coastal Works at, 323
Newcastle, N.S.W., Coal Loading Plant for Port of, 225
Newcastle, N.S.W., Siltation Problems at, 319
New Class of Dual-Purpose Tug, 200
New Coastal Works at Nahariya, 323
New Dredger for U.S. Engineers, 315
New Dredgers for Ghana, 164
New Ferry Terminal at Southampton, 189
New Japanese Suction Dredger, 129
New Method of Insect Control, 240
New Oil Refinery for Whangarei Port, 290
New Oil Terminal at the Port of Genoa, 70
Newport Docks, Repairs to Lock Gate Anchorages at, 181
New Precast Concrete Pile, A, 30
New System of Constructing Marine Piers, A, 163
New Tanker Terminal at Milford Haven, 165
New Terminals for Woolwich Ferry, 234
New Transit Shed at Manchester Docks, 195
New York Pier, Rehabilitation of, 218
New Zealand Dock Labour, 220

O

Obsolescence in Maritime Works, Design for, 309
Obstruction in the New Waterway, Eliminating an, 15
Offshore Dredging, 241
Oilfield, Marine Engineering at the Soldado Offshore, 131
Oil Jetties at the Port of Hull, 336
Oil Pollution of the Seas, Efforts to Control, 118
Oil Refinery for Whangarei Port, New, 290
Oil Terminal at the Port of Genoa, New, 70
One View of Dock Labour, 384
Ore Handling at Port Talbot, 126
Ore Harbour of Luleå, The, 366
Our Links with Europe, 19
Output Logging Instrument for Suction Dredgers, 257

P

Packaged Lumber Increases Efficiency, 261
Packaging, The Economics of Sawnwood, 388
Panama Canal, The Future of the, 143
Parkeston Quay, Dock Labour Study at, 111
Passenger Terminals in the Port of Sydney, 10
Picton Rail-Road Ferry Terminal, The, 138
Pier Project, Computing the Annual Cost of a, 249
Pier, Rehabilitation of New York, 218
Piers, A New System of Constructing Marine, 163
Piers at IJmuiden Harbour, Extension of, 270
Pile, A New Precast Concrete, 30
Piles in Maritime Structures, Further Examples of Cased, 104
Pollution of the Seas, Efforts to Control Oil, 118
Pollution on the Thames Estuary, Effects of, 326
Pontoons for Easy Transport, Dismountable, 166
Port Congestion, A Cure for, 387
Port Congestion and the Chamber of Shipping, 342
Port Development in Mexico, 355
Port Efficiency—the Need for a Practical Approach, 7
Port Industry, Metallurgical Developments and the, 193
Port Kembla, Coal Loading Plant at, 281
Port Lyttelton Harbour Extension, 357
Port Management, 175
Port of Antwerp, Improvements at the, 321
Port of Bremen, Development of a New Dock Area, 287
Port of Bristol, The, 2
Port of Dunkirk, The, 222
Port of Felixstowe, Further Developments at the, 153
Port of Genoa, New Oil Terminal at the, 70
Port of Hull, Oil Jetties at the, 336
Port of Le Havre, The, 170
Port of London, Record Year at the, 125

Port of Newcastle, N.S.W., Coal Loading Plant for, 225
Port of Sydney, Passenger Terminals in the, 10
Ports of Ghana, The, 85
Ports, Timber Handling in the, 292
Port Talbot, Ore Handling at, 126
Port Transit Sheds: the Cost of Building Higher, 276
Power Development Project, The Hydro-Quebec, 345
Proposed Re-organisation of Major French Ports, 183

Q

Quays and Ships, Effective Protection for, 251

R

Recent Advances in Cathodic Protection, 184
Recent Developments in Harbour Surveillance Radar, 45
Record Year at the Port of London, 125
Record Year for Canadian Ports, 26
Rehabilitation of New York Pier, 218
Reinforced Plastic Lighted Buoys, 259
Re-organisation of British Ports, The, 53
Re-organisation of United Kingdom Ports, 372
Repairs to Lock Gate Anchorages at Newport Docks, 181
River Humber, An Investigation into Silt in Suspension in the, 120
Rotterdam, Mobile Crane Track for Waalhaven Pier, 149
Rubble Mound Breakwaters, Design of, 377

S

Salt Wedges, Estuarine, 79
Sand for Coastal Defence Works, 317
Sawnwood Packaging, The Economics of, 388
Segmented Cargo Ships, 278
Siltation Problems at Newcastle, N.S.W., 319
Silt in Suspension in the River Humber, An Investigation into, 120
Skimming Barge for Harbours, 134
Soldado Offshore Oilfield, Marine Engineering at the, 131
Some Aspects of Cargo Handling in Deep-Sea Liner Trades, 12
Some Observations of Coast Erosion, 64
South African Harbours, Improvements at, 32
Southampton, New Ferry Terminal at, 189
Sydney, Passenger Terminals in the Port of, 10

T

Tanker Terminal at Milford Haven, New, 165
Terminals for Woolwich Ferry, New, 234
Thames Estuary, Effects of Pollution on the, 326
Thames Estuary, Tidal Flow in the, 160
Tidal Flow in the Thames Estuary, 160
Tidal Institute and Observatory, Liverpool, 42
Timber Cargoes from Ports, Discharge of, 209
Timber Handling in the Ports, 292
Training the Labour Force, 95
Transit Shed at Manchester Docks, New, 195
Transit Sheds: The Cost of Building Higher, Port, 276
Transport Links with Europe, 151
Transport of Liquefied Natural Gas by Sea, 248
Troughed Belt Conveying, Modern Practice in, 128
Tug, New Class of Dual-Purpose, 200

U

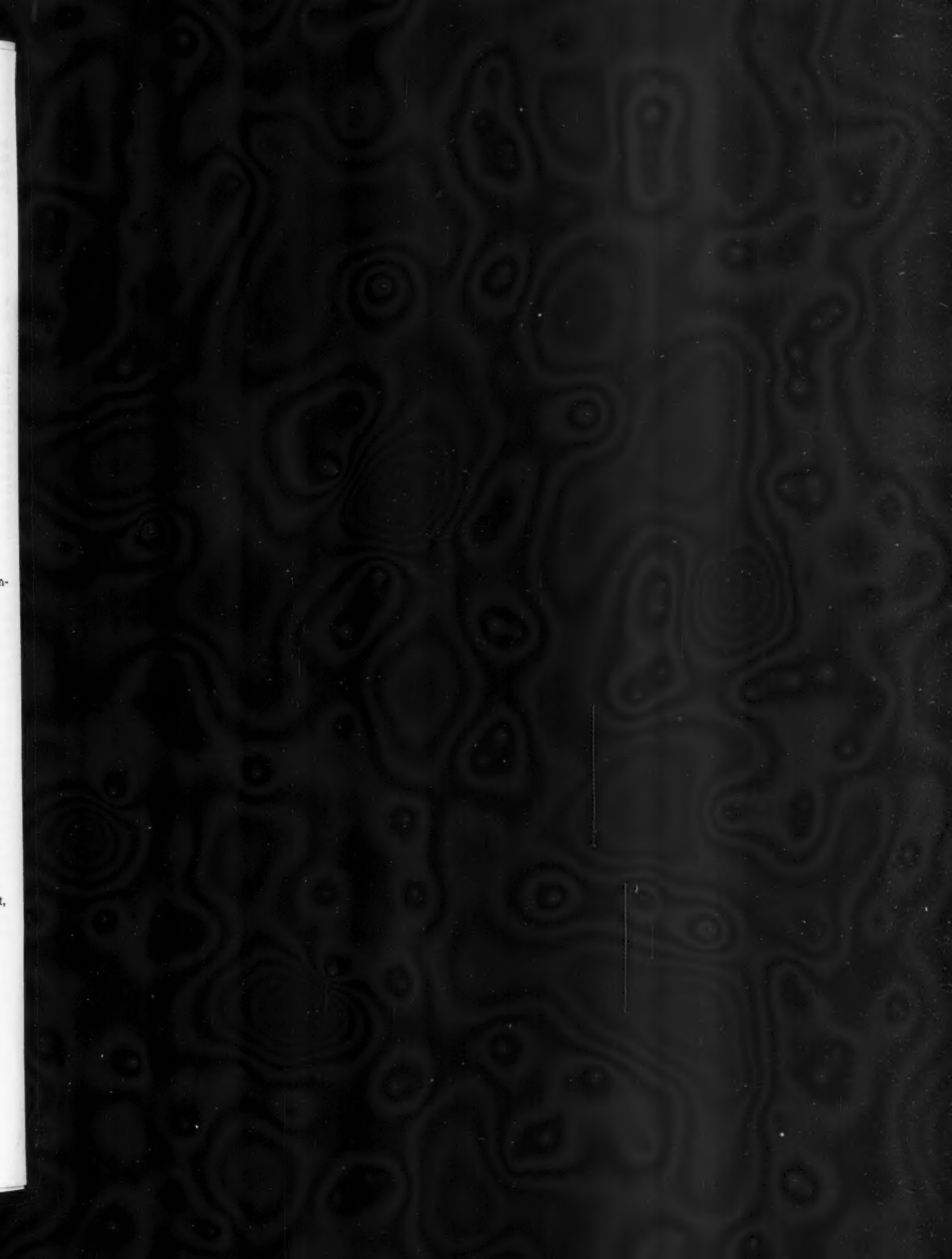
U.K., Dock Labour in the, 43
U.K. Ports, Control of, 83
Underwater Air Curtain Near a Vertical Wall, 306
United Kingdom Ports, Re-organisation of, 372
U.S. Engineers, New Dredger for, 315

V

Vertical Wall, Underwater Air Curtain Near a, 306
Vertical Breakwaters with Low Coefficients of Reflection, Comments on, 56

W

Waalhaven Pier, Rotterdam, Mobile Crane Track for, 149
Wallingford, Hydraulics Research at, 97
Waterway, Eliminating an Obstruction in the New, 15
Wave Absorbing Devices, Model Studies of, 157
Wellington Rail-Road Ferry Terminal, The, 36
Whangarei Port, New Oil Refinery for, 290
Woolwich Ferry, New Terminals for, 234

Index to Contributors

Abbott, M. B., 213
Bajpai, G. N., 377
Bannmark, Olle, 70
Boivin, Richard, 56
Bruun, Per, 241, 391
Bulson, P. S., 306
Cherry, P. B., 187
Collins, G. W., 292
Cornfield, G. M., 104
Costa, F. Vasco, 22, 49, 90
Currer, G. W., 75
Dance, Alfred, 281
Davidson, H. E., 181
Deschênes, Henry, 170
Dixhoorn, Ir. J. Van, 15
Foster, C., 84
Fox, D. J., 143
Fried, I., 323
Gentry, J. S. B., 300
Hinwood, J. B., 79
Hunt, J. N., 160
Ivimey, F. J., 85
Jackson, W. H., 120
Kerkhaff, J., 270
King, Albert Lyle, 249
Kirby, Sir Arthur, 372
Kirkham, C. E., 157
Lawson, J. D., 157
Leaman, William John, 336
Lindell, G. A., 36
Lowe, R. A., 184
Lutz, Ralph, 287
MacTier, Sir Stewart, 12
Massey, Irvin T., 315
Negri, N. Clive, 45
Page, F. A., 276
Palmer, F., 388
Papp, Remig A., 218
Phillips, Ada W., 64
Poort, ir. J., 149
Poseidon, 7, 387
Postlethwaite, Roger Kelsall, 336
Preston, W., 209
Purpura, J. A., 391
Rochdale, The Rt. Hon. The Viscount, 53
Sanderson, L., 193
Sandstrom, Henry, 70
Seabrook, A. J., 215
Shepherd, W. R., 95
Slagboom, A., 15
Slater, John, 195
Stern, W. L., 27
Tooth, E. S., 62, 198, 384
West, R. E., 276
Wheeler, C. Maxwell, 138
Wood, D. J. D., 234